

PALM INTRANET

Day : Tuesday
 Date: 2/25/2003
 Time: 07:50:40

Inventor Name Search Result

Your Search was:

Last Name = SHAO

First Name = LIMING

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>09188740</u>	<u>6243612</u>	150	11/09/1998	PROCESSING SYSTEM HAVING A SCHEDULING SYSTEM BASED ON A COMPOSITE RATIO OF PROCESS SCHEDULING FACTORS	SHAO , LIMING
<u>60135721</u>	Not Issued	159	05/25/1999	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO , LIMING
<u>60168979</u>	Not Issued	159	12/03/1999	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO , LIMING
<u>60275600</u>	Not Issued	020	03/13/2001	METHODS FOR THE STEREOSELECTIVE SYNTHESIS OF SUBSTITUTED PIPERIDINES	SHAO, LIMING
<u>60195809</u>	Not Issued	159	04/11/2000	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING
<u>60284374</u>	Not Issued	020	04/17/2001	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING
<u>09579398</u>	Not Issued	061	05/25/2000	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING
<u>09951137</u>	Not Issued	030	09/12/2001	ANTIPSYCHOTIC SULFONAMIDE-HETEROCYCLES, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>60231607</u>	Not Issued	020	09/11/2000	ANTIPSYCHOTIC SULFONAMIDE-HETEROCYCLES, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>10014321</u>	Not Issued	030	10/26/2001	ORALLY-BIOAVAILABLE FORMULATIONS OF FENTANYL AND CONGENERS THEREOF	SHAO, LIMING
<u>60189349</u>	Not Issued	159	03/14/2000	3-SUBSTITUTED PIPERIDINES COMPRISING UREA FUNCTIONALITY, AND METHODS OF	SHAO, LIMING

USE THEREOF					
<u>09951130</u>	Not Issued	040	09/12/2001	LIGANDS FOR MONOAMINE RECEPTORS AND TRANSPORTERS, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>60251144</u>	Not Issued	020	12/04/2000	ORALLY-BIOAVAILABLE FORMULATIONS OF FENTANYL AND CONGENERS THEREOF	SHAO, LIMING
<u>60251209</u>	Not Issued	020	12/04/2000	METHODS FOR THE STEREOSELECTIVE SYNTHESIS OF SUBSTITUTED PIPERIDINES	SHAO, LIMING
<u>09717174</u>	Not Issued	041	11/20/2000	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING
<u>60339506</u>	Not Issued	020	12/11/2001	4-SUBSTITUTED PIPERIDINES, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>10012242</u>	Not Issued	041	12/04/2001	METHODS FOR THE STEREOSELECTIVE SYNTHESIS OF SUBSTITUTED PIPERIDINES	SHAO, LIMING
<u>10121029</u>	Not Issued	030	04/11/2002	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING
<u>10289121</u>	Not Issued	020	11/05/2002	3-SUBSTITUTED PIPERIDINES COMPRISING UREA FUNCTIONALITY, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>09792866</u>	6476050	150	02/23/2001	3-SUBSTITUTED PIPERIDINES COMPRISING UREA FUNCTIONALITY, AND METHODS OF USE THEREOF	SHAO, LIMING
<u>09798803</u>	Not Issued	093	03/02/2001	HETEROCYCLIC ANALGESIC COMPOUNDS AND METHODS OF USE THEREOF	SHAO, LIMING

Inventor Search Completed: No Records to Display.

Search Another:	Last Name	First Name
Inventor	<input type="text" value="shao"/>	<input type="text" value="liming"/>
	<input type="button" value="Search"/>	

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WEST Search History

DATE: Tuesday, February 25, 2003

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
L3	fentanyl same (cyclodextrin\$)	2	L3
L2	fentanyl same (microsphere\$ or nanosphere\$)	1	L2
L1	fentanyl same (liposome\$ or cyclodextrin\$)	15	L1

END OF SEARCH HISTORY

WEST**Search Results - Record(s) 1 through 15 of 15 returned.**

1. Document ID: US 6521737 B1

L1: Entry 1 of 15

File: USPT

Feb 18, 2003

US-PAT-NO: 6521737

DOCUMENT-IDENTIFIER: US 6521737 B1

TITLE: Peptides which enhance transport across tissues and methods of identifying and using the same

DATE-ISSUED: February 18, 2003

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Mahony; Daniel Joseph	Dublin			IE

US-CL-CURRENT: 530/300; 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC
Draw Desc	Image										

2. Document ID: US 6465439 B1

L1: Entry 2 of 15

File: USPT

Oct 15, 2002

US-PAT-NO: 6465439

DOCUMENT-IDENTIFIER: US 6465439 B1

TITLE: Pharmaceutical compositions

DATE-ISSUED: October 15, 2002

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nicklin; Paul Leslie	Henfield			GB
Phillips; Judith Ann	Sevenoaks			GB
Love; William Guy	Horsham			GB
Hamilton; Karen Ophelia	Lawrence	KS		

US-CL-CURRENT: 514/44; 424/450, 435/325, 435/375, 536/23.1, 536/24.31, 536/24.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMPC
Draw Desc	Image										

3. Document ID: US 6361938 B1

L1: Entry 3 of 15

File: USPT

Mar 26, 2002

US-PAT-NO: 6361938

DOCUMENT-IDENTIFIER: US 6361938 B1

TITLE: Peptides which enhance transport across tissues and methods of identifying and using the same

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Mahony; Daniel Joseph	Dublin			IE
Alvarez; Vernon L.	Morrisville	PA		
Seveso; Michela	Dublin			IE

US-CL-CURRENT: 435/6; 435/5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc	Image										

 4. Document ID: US 6313176 B1

L1: Entry 4 of 15

File: USPT

Nov 6, 2001

US-PAT-NO: 6313176

DOCUMENT-IDENTIFIER: US 6313176 B1

TITLE: Dosing method of administering deprenyl via intraoral administration or inhalation administration

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellinwood, Jr.; Everett J.	Durham	NC	27707	
Gupta; Samir K.	Kenilworth	NJ	07033	

US-CL-CURRENT: 514/654

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC
Draw Desc	Image										

 5. Document ID: US 6221385 B1

L1: Entry 5 of 15

File: USPT

Apr 24, 2001

US-PAT-NO: 6221385

DOCUMENT-IDENTIFIER: US 6221385 B1

TITLE: Freeze dried liposome encapsulated amphiphilic drug compositions and a process for the preparation thereof

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Camu; Frederic	Nieuwkerken			BE
Brasseur; Robert	Haillot			BE
Legros; Franz	Jumet			BE
Carlino; Sandra	Tubize			BE

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							KWIC

 6. Document ID: US 6149937 A

L1: Entry 6 of 15

File: USPT

Nov 21, 2000

US-PAT-NO: 6149937

DOCUMENT-IDENTIFIER: US 6149937 A

TITLE: Liposome encapsulated amphiphilic drug compositions

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Camu; Frederic	Nieuwerkerken			BE
Alafandy; Mokarram	Brussels			BE
Brasseur; Robert	Haillot			BE
Legros; Franz	Jumet			BE
Bouffioux; Oliver	Lesves			BE

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/1.21, 424/417, 424/9.321, 424/9.51, 424/94.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							KWIC

 7. Document ID: US 6140323 A

L1: Entry 7 of 15

File: USPT

Oct 31, 2000

US-PAT-NO: 6140323

DOCUMENT-IDENTIFIER: US 6140323 A

TITLE: Dosing method of administering medicaments via inhalation administration or skin administration

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellinwood, Jr.; Everett H.	Durham	NC	27707	
Gupta; Samir K.	Kenilworth	NJ	07033	

US-CL-CURRENT: 514/221

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMPC
Draw	Desc	Image								

8. Document ID: US 6117632 A

L1: Entry 8 of 15

File: USPT

Sep 12, 2000

US-PAT-NO: 6117632

DOCUMENT-IDENTIFIER: US 6117632 A

TITLE: Peptides which enhance transport across tissues and methods of identifying and using the same

DATE-ISSUED: September 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
O'Mahony; Daniel Joseph	Dublin			IE

US-CL-CURRENT: 435/6; 435/91.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMPC
Draw	Desc	Image								

9. Document ID: US 6054429 A

L1: Entry 9 of 15

File: USPT

Apr 25, 2000

US-PAT-NO: 6054429

DOCUMENT-IDENTIFIER: US 6054429 A

TITLE: Epidural method of producing analgesia

DATE-ISSUED: April 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bowersox; S. Scott	Menlo Park	CA		
Gadbois; Theresa	Menlo Park	CA		
Pettus; Mark Raymond	San Jose	CA		
Luther; Robert R.	Los Altos Hills	CA		

US-CL-CURRENT: 514/12; 530/300, 530/324

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMPC
Draw	Desc	Image								

10. Document ID: US 6048857 A

L1: Entry 10 of 15

File: USPT

Apr 11, 2000

US-PAT-NO: 6048857

DOCUMENT-IDENTIFIER: US 6048857 A

TITLE: Dosing method of administering medicaments via inhalation administration

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ellinwood, Jr.; Everett H.	Durham	NC	27707	
Gupta; Samir K.	Kenilworth	NJ	07033	

US-CL-CURRENT: 514/221

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KMC

 11. Document ID: US 5451408 A

L1: Entry 11 of 15

File: USPT

Sep 19, 1995

US-PAT-NO: 5451408

DOCUMENT-IDENTIFIER: US 5451408 A

TITLE: Pain management with liposome-encapsulated analgesic drugs

DATE-ISSUED: September 19, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mezei; Michael	Nova Scotia			CA
Rung; Orlando	Nova Scotia			CA

US-CL-CURRENT: 424/450; 424/1.13, 424/1.21, 514/817

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KMC

 12. Document ID: JP 10251142 A

L1: Entry 12 of 15

File: JPAB

Sep 22, 1998

PUB-NO: JP410251142A

DOCUMENT-IDENTIFIER: JP 10251142 A

TITLE: MEDICINAL PREPARATION CONTAINING LIPOPHILIC INERT GAS

PUBN-DATE: September 22, 1998

INVENTOR-INFORMATION:

NAME

COUNTRY

GEORGIEFF, MICHAEL DR

INT-CL (IPC): A61 K 9/107; A61 K 9/08; A61 K 33/00; A61 K 33/00; A61 M 16/01

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMNC
Draw Desc	Clip Img	Image								

 13. Document ID: US 20020160991 A1 WO 200245713 A2 AU 200241611 A

L1: Entry 13 of 15

File: DWPI

Oct 31, 2002

DERWENT-ACC-NO: 2002-590515

DERWENT-WEEK: 200274

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TITLE: Orally bioavailable formulation useful for treating pain, drug addiction and tinnitus comprises fentanyl derivative, cyclodextrin, liposome, micelle forming agent or polymeric carrier

INVENTOR: SHAO, L

PRIORITY-DATA: 2000US-251144P (December 4, 2000), 2001US-0014321 (October 26, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020160991 A1	October 31, 2002		000	A01N043/00
WO 200245713 A2	June 13, 2002	E	048	A61K031/4468
AU 200241611 A	June 18, 2002		000	A61K031/4468

INT-CL (IPC): A01 N 43/00; A01 N 43/40; A61 K 31/33; A61 K 31/435; A61 K 31/4468; A61 K 47/30; A61 K 47/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMNC
Draw Desc	Clip Img	Image								

 14. Document ID: MX 206693 B EP 864329 A1 WO 9840083 A1 JP 10251142 A AU 9868286 A NO 9904091 A EP 966291 A1 CZ 9903173 A3 BR 9808227 A SK 9901187 A3 CN 1255065 A HU 200001510 A2 EP 864329 B1 DE 59702760 G ES 2152608 T3 NZ 337534 A US 6197323 B1 MX 9908308 A1 KR 2000076077 A EP 966291 B1 AU 738946 B DE 69802268 E US 6328708 B1 ES 2162437 T3

L1: Entry 14 of 15

File: DWPI

Feb 8, 2002

DERWENT-ACC-NO: 1998-468984

DERWENT-WEEK: 200307

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TITLE: New liquid analgesic, muscle relaxant, anaesthetic, sedative or inflammation therapy preparation - comprises lipophilic inert gas, preferably xenon in liposome

INVENTOR: GEORGIEFF, M

PRIORITY-DATA: 1997DE-1009704 (March 10, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 206693 B	February 8, 2002		000	A61K033/00
EP 864329 A1	September 16, 1998	G	011	A61K033/00
WO 9840083 A1	September 17, 1998	E	000	A61K033/00
JP 10251142 A	September 22, 1998		010	A61K009/107
AU 9868286 A	September 29, 1998		000	A61K033/00
NO 9904091 A	October 27, 1999		000	A61K000/00
EP 966291 A1	December 29, 1999	E	000	A61K033/00
CZ 9903173 A3	January 12, 2000		000	A61K033/00
BR 9808227 A	May 16, 2000		000	A61K033/00
SK 9901187 A3	May 16, 2000		000	A61K033/00
CN 1255065 A	May 31, 2000		000	A61K033/00
HU 200001510 A2	September 28, 2000		000	A61K033/00
EP 864329 B1	December 13, 2000	G	000	A61K033/00
DE 59702760 G	January 18, 2001		000	A61K033/00
ES 2152608 T3	February 1, 2001		000	A61K033/00
NZ 337534 A	February 23, 2001		000	A61K009/08
US 6197323 B1	March 6, 2001		000	A61F002/02
MX 9908308 A1	February 1, 2000		000	A61K033/00
KR 2000076077 A	December 26, 2000		000	A61K033/00
EP 966291 B1	October 31, 2001	E	000	A61K033/00
AU 738946 B	September 27, 2001		000	A61K033/00
DE 69802268 E	December 6, 2001		000	A61K033/00
US 6328708 B1	December 11, 2001		000	A61M037/00
ES 2162437 T3	December 16, 2001		000	A61K033/00

US 6197323 B1 INT-CL (IPC) : A61 F 2/02; A61 K 0/00; A61 K 9/00; A61 K 9/08; A61 K 9/107; A61 K 33/00; A61 K 47/02; A61 M 16/01; A61 M 37/00; A61 P 23/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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15. Document ID: MX 206693 B EP 864328 A1 WO 9840083 A1 WO 9840084 A1 DE 19709704 A1 JP 10248934 A JP 10251142 A AU 9867285 A DE 19709704 C2 ZA 9801953 A ZA 9801958 A NO 9904091 A CZ 9903173 A3 AU 719407 B BR 9808227 A SK 9901187 A3 NZ 337535 A HU 200001510 A2 TW 396040 A NZ 337534 A US 6197323 B1 MX 9908305 A1 MX 9908308 A1 KR 2000076117 A US 6328708 B1 US 20020052573 A1

L1: Entry 15 of 15

File: DWPI

Feb 8, 2002

DERWENT-ACC-NO: 1998-468983

DERWENT-WEEK: 200307

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TITLE: Apparatus for patient anaesthetics, analgesics and/or sedation - comprises container with fluid and dissolved noble gas with delivery control unit

INVENTOR: GEORGIEFF, M

PRIORITY-DATA: 1997DE-1009704 (March 10, 1997), 1997EP-0113757 (August 8, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 206693 B	February 8, 2002		000	A61K033/00
EP 864328 A1	September 16, 1998	G	014	A61K033/00
WO 9840083 A1	September 17, 1998	E	000	A61K033/00
WO 9840084 A1	September 17, 1998	E	000	
DE 19709704 A1	September 24, 1998		000	A61K033/00
JP 10248934 A	September 22, 1998		010	A61M016/01
JP 10251142 A	September 22, 1998		010	A61K009/107
AU 9867285 A	September 29, 1998		000	
DE 19709704 C2	November 4, 1999		000	A61K033/00
ZA 9801953 A	November 24, 1999		028	A61K000/00
ZA 9801958 A	November 24, 1999		028	A61K000/00
NO 9904091 A	October 27, 1999		000	A61K000/00
CZ 9903173 A3	January 12, 2000		000	A61K033/00
AU 719407 B	May 11, 2000		000	A61K033/00
BR 9808227 A	May 16, 2000		000	A61K033/00
SK 9901187 A3	May 16, 2000		000	A61K033/00
NZ 337535 A	June 23, 2000		000	A61K009/08
HU 200001510 A2	September 28, 2000		000	A61K033/00
TW 396040 A	July 1, 2000		000	A61M021/00
NZ 337534 A	February 23, 2001		000	A61K009/08
US 6197323 B1	March 6, 2001		000	A61F002/02
MX 9908305 A1	February 1, 2000		000	A61K033/00
MX 9908308 A1	February 1, 2000		000	A61K033/00
KR 2000076117 A	December 26, 2000		000	A61K033/00
US 6328708 B1	December 11, 2001		000	A61M037/00
US 20020052573 A1	May 2, 2002		000	A61M037/00

, NZ 337535 A INT-CL (IPC) : A61 F 2/02; A61 K 0/00; A61 K 9/00; A61 K 9/08; A61 K 9/107; A61 K 33/00; A61 K 47/02; A61 M 5/14; A61 M 16/01; A61 M 21/00; A61 M 37/00; A61 P 23/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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Terms	Documents
fentanyl same (liposome\$ or cyclodextrin\$)	15

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WEST

L1: Entry 7 of 15

File: USPT

Oct 31, 2000

DOCUMENT-IDENTIFIER: US 6140323 A

TITLE: Dosing method of administering medicaments via inhalation administration or skin administration

Brief Summary Text (53):

Other potential improvements of pulmonary inhalation of drugs via an inhalator delivery system include the use of liposomes (microscopic phospholipid vesicles). The liposomal delivery of drugs slows the uptake of drug absorption from the lungs thus, providing a sustained drug release. (See, Hung, O. R., Whynot, S. C., Varvel, J. R., Shafer, S. L. and Mezel, M., "Pharmacokinetics of Inhaled Liposome-Encapsulated Fentanyl", Anesthesiol., 82:277-284 (1995).

WEST

L1: Entry 5 of 15

File: USPT

Apr 24, 2001

DOCUMENT-IDENTIFIER: US 6221385 B1

TITLE: Freeze dried liposome encapsulated amphiphilic drug compositions and a process for the preparation thereof

Brief Summary Text (15) :

The amphiphilic drug which is encapsulated in the liposomes which are freeze dried in accordance with the present invention may be a local anaesthetic, for example bupivacaine, ropivacaine, prilocaine, mepivacaine, tetrocaine or etidocaine, or a narcotic analgesic, for example morphine, fentanyl, alfentanil or sulfentanil.

WEST

End of Result Set

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L2: Entry 1 of 1

File: USPT

Oct 23, 2001

DOCUMENT-IDENTIFIER: US 6306425 B1

TITLE: Injectable naltrexone microsphere compositions and their use in reducing consumption of heroin and alcohol

Brief Summary Text (28):

By having microspheres which have long-term releasing capability, that is, greater than 28 days, particularly greater than about 32 days, one can layer the administration, so that by giving injections in a periodic manner, one obtains an additive effect. In this manner, smaller doses may be administered after the first dose, because one continues to obtain release from the prior injected microspheres to which is added the release from the lately administered microspheres, or one can enjoy enhanced levels of the naltrexone without increasing the amount of the microspheres which are administered. By providing for microspheres that can continue to release at levels in excess of 1 ng/mL in blood, preferably in excess of 1.5 ng/mL in blood, more preferably in excess of 2 ng/mL in blood, greater than about 28 days after injection, frequently at least about 36 days, more frequently at least about 42 days. In this way protection is greatly enhanced, as the subject is continuously protected with a protective level of the naltrexone and one can provide levels of naltrexone which will inhibit response to a 50-mg challenge dose of heroin or an equivalent dose of a different drug, e.g. fentanyl.

Detailed Description Paragraph Table (2):

Summary of Opioid Challenge Study for Dogs Treated with Formulation F-1 Days RESULTS BOTH BEFORE AND AFTER OPIOID CHALLENGE after dosing ALERTNESS FLEXOR Type of Dog F-1 Lot of the opioid PUPIL SIZE, cm STATUS.sup.2 REFLEX.sup.3 Dog.sup.1 Number Number challenge Opioid, dose (mcg) Pre Post Pre Post Pre Post Veterinarian Assessment Control 2521 Fentanyl, 70 1.2 0.9 3 4 + D suboptimal opioid dose used Control 2530 Fentanyl, 70 1.2 0.9 3 3.5 + D suboptimal opioid dose used F-1 2520 J437-041 1 Fentanyl, 70 1.2 1.0 3 3 + + full block F-1 2503 J437-041 1 Fentanyl, 70 1.2 1.0 3 3 + + full block Control 2521 Fentanyl, 110 1.2 0.9 3 5 + D full opioid response obtained Control 2530 Fentanyl, 110 1.0 0.9 3 5 + D full opioid response obtained F-1 2520 J437-041 8 Fentanyl, 110 1.0 0.9 3 3 + + full block F-1 2503 J437-041 8 Fentanyl, 110 1.4 1.2 3 3.5 + + full block Control 2521 Fentanyl, 187.5 1.2 0.9 3 5 + D, (-) full opioid response obtained Control 2530 Fentanyl, 175 1.0 0.8 3 5 + D, (-) full opioid response obtained F-1 2507 J554-045 12 Fentanyl, 180 1.0 0.9 3 4 + + partial block F-1 2518 J554-045 12 Fentanyl, 180 1.2 1.2 3 4 + D partial block Control 2521 Fentanyl, 150 1.2 0.9 3 5 + D full opioid response obtained Control 2530 Fentanyl, 150 0.9 0.8 3 5 + D full opioid response obtained F-1 2520 J437-041 15 Fentanyl, 150 1.0 1.0 3 4 + + partial block F-1 2503 J437-041 15 Fentanyl, 150 1.4 1.0 3 3 + + partial block Control 2521 Fentanyl, 225 1.2 1.0 3 5 + - full opioid response obtained Control 2530 Fentanyl, 215 1.0 0.9 3 5 + - full opioid response obtained F-1 2507 J554-045 19 Fentanyl, 220 1.2 1.0 3 4 + D partial block F-1 2518 J554-045 19 Fentanyl, 220 1.2 1.0 3 4 + D partial block Control 2521 Fentanyl, 250 1.2 0.9 3 5 + -- full opioid response obtained F-1 2507 J554-045 26 Fentanyl, 240 1.0 0.8 3 4 + D partial block F-1 2518 J554-045 26 Fentanyl, 240 1.0 0.9 3 3 + -- partial block Control 2521 Fentanyl, 280 1.2 0.9 3 5 + -- full opioid response obtained Control 2530 Fentanyl, 280 1.0 0.9 3 5 + D full opioid response obtained F-1 2507 J554-045 33 Fentanyl, 280 1.0 0.9 3 4 + + partial block F-1 2518 J554-045 33 Fentanyl, 280 1.0 0.9 3 3 + + partial block Control 2521 Fentanyl, 187.5 1.2 0.9 3 5 + D, (-) full opioid response obtained Control 2530 Fentanyl, 175 1.0 0.8 3 5 + D, (-) full opioid response obtained F-1 2520 J437-041 55 Fentanyl, 180 1.0 1.0 3 4 + +

partial block F-1 2503 J437-041 55 Fentanyl, 180 1.2 1.2 3 2 + + partial block
Control 2521 Fentanyl, 225 1.2 1.0 3 5 + - full opioid response obtained Control 2530
Fentanyl, 215 1.0 0.9 3 5 + - full opioid response obtained F-1 2520 J437-041 63
Fentanyl, 220 1.0 1.0 3 4 + + partial block F-1 2503 J437-041 63 Fentanyl, 220 1.4
1.0 3 4 + - partial block Control 2521 Fentanyl, 250 1.2 0.9 3 5 + - full opioid
response obtained F-1 2520 J437-041 70 Fentanyl, 240 1.0 0.9 4 4 + + partial block
F-1 2503 J437-041 70 Fentanyl, 240 1.2 1.4 3 4 + + partial block Control 2521
Fentanyl, 280 1.2 0.9 3 5 + - full opioid response obtained Control 2530 Fentanyl,
280 1.0 0.9 3 5 + D full opioid response obtained F-1 2520 J437-041 77 Fentanyl, 280
1.0 0.8 3 4 + + partial block F-1 2503 J437-041 77 Fentanyl, 280 1.2 1.0 3 5 + D
minimal block NOTES: .sup.1 Control indicates Control dogs that were not treated with
naltrexone. F-1 indicates dogs that were dosed with 15 mg/kg naltrexone microspheres,
Formulation F-1 .sup.2 KEY: Alertness Status Scale 1 Agitated 3 Awake (standing) 3.5
Can stand but prefers to sit 4 Drowsy but Sitting 5 Recumbent KEY: Flexor Reflux
Scale + positive reflex D depressed reflux - no reflux

WEST

L3: Entry 1 of 2

File: USPT

Apr 25, 2000

DOCUMENT-IDENTIFIER: US 6054429 A

TITLE: Epidural method of producing analgesia

Other Reference Publication (1):

Bernards, C.M., "Effect of (Hydroxypropyl)-.beta.-cyclodextrin on Flux of Morphine, Fentanyl, Sufentanil, and Alfentanil Through the Spinal Meninges of Monkey," Journal of Pharmaceutical Sciences, 83(5):620-622 (1994).